

**Notice of Allowability**

Application No.

10/781,787

Examiner

C. J. Arbes

Applicant(s)

NODA ET AL.

Art Unit

3729

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12 January 2005.
2. ☒ The allowed claim(s) is/are 4,5 and 9-11.
3. ☒ The drawings filed on 20 February 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date hereto
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

*CJA*  
C. J. Arbes  
Primary Examiner  
Art Unit: 3729

### **Reasons for Allowance**

COMES NOW THE PATENT OFFICE, by Examiner and states that at least a reason for Allowance of this Application is that the Prior Art neither teaches nor suggests a combination steps of a method to place an electronic component which include recognizing a position of an electronic component by capturing, via a feeder camera, an image of the electronic component while in the feeder, positioning the electronic component relative to the transfer head based on the positional recognition result of the component obtained by recognizing the position of the component while in the feeder, using a takeout and transfer head to remove the component from the feeder at a feeding position, and to flip the component while transferring the component to a receiving position, positioning the component after have been removed from the feeder relative to a placement head, using the placement head to receive the component after having been positioned relative to the placement head, from the takeout and transfer head at the receiving position, recognizing a position of the component by capturing via the placement head camera, an image of the component from beneath the placement head while the component is held by the placement head, positioning the component, while held in the placement head, relative to a board, while held by a board holder, based on a positional recognition result of the component obtained by recognizing the position of the component while held by the placement head and placing the component onto the board after the component has been positioned relative to the board.

Furthermore the Patent Saith not.

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Any inquiry concerning this communication should be directed to C. J. Arbes at telephone number 571-272-4563.



C. J. Arbes  
Primary Examiner  
Art Unit 3729